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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20040153474").PN.	US-PGPUB; USPAT	OR	OFF	2006/05/03 06:45
S2	50	("6965601" "6516312" "6199081" "6003025" "6145003" "6389467" "6484199" "6721741" "6735628" "7003566" "6883074" "6978353" "6324581" "6973455" "5991862" "6108619" "6411963" "6466934" "6513044" "5721911" "6236994" "5724501" "5793980" "5832499" "5946690" "5944793" "6092080" "6151634" "6167405" "6188985" "6282362" "6311194" "6345288" "6353831" "6477544" "6480970" "6526434" "6654734" "6691163" "6963972" "6985932" "5892915" "6128627" "5493677" "5497491" "5586311" "5682535" "5692175" "5721925" "5754844").pn.	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:39
S3	16696	metadata or (meta adj data) or meta-data	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:40
S4	123894	template\$1	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:39
S5	619	S3 with S4	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:39
S6	994042	link\$4	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:40
S7	1916	S6 with S3	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:40
S8	56247	GUI or (graphical adj user adj interface\$1)	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:40
S9	58	S5 and S7 and S8	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:40
S10	598	S3.ti.	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:40
S11	7	S9 and S10	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:46
S12	63470	multi-media or multimedia	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:46
S13	3	S11 and S12	US-PGPUB; USPAT	OR	OFF	2006/05/02 12:47
S14	16	S9 and S12	US-PGPUB; USPAT	OR	OFF	2006/05/03 07:10
S15	1	("20020135621").PN.	US-PGPUB; USPAT	OR	OFF	2006/05/03 06:46

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S16	1	("20020167683").PN.	US-PGPUB; USPAT	OR	OFF	2006/05/03 06:46
S17	2593	(715/513).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/03 07:10
S18	762	(715/517).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/03 07:10

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Relevance scale **1 Model-driven development of Web applications: the AutoWeb system** Piero Fraternali, Paolo PaoliniOctober 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(6.94 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling**2 Languages & Authoring for the Semantic Web: Authoring and annotation of web** [pages in CREAM](#)

Siegfried Handschuh, Steffen Staab

May 2002 **Proceedings of the 11th international conference on World Wide Web****Publisher:** ACM PressFull text available:  [pdf\(764.65 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Richly interlinked, machine-understandable data constitute the basis for the Semantic Web. We provide a framework, CREAM, that allows for creation of metadata. While the annotation mode of CREAM allows to create metadata for existing web pages, the authoring mode lets authors create metadata --- almost for free --- while putting together the content of a page. As a particularity of our framework, CREAM allows to create *relational metadata*, i.e. metadata that instantiate interrelated defini ...

Keywords: RDF, annotation, metadata, semanticWeb**3 Tools and approaches for developing data-intensive Web applications: a survey**

Piero Fraternali

 September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available:  pdf(524.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillary diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and character ...

Keywords: HTML, Intranet, WWW, application, development

- 4 [Education and training: A systematic approach to produce small courseware modules for combined learning and knowledge management environments](#) 

 Ines Grützner, Niniek Angkasaputra, Dietmar Pfahl
July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available:  pdf(219.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Combining technology enabled learning and knowledge management is a very promising strategy to systematic competence building in software organizations. In order to set-up a combined learning and knowledge management environment and to support organization members in packaging small chunks of knowledge into courseware modules, Fraunhofer IESE developed the IntView-KM methodology. IntView-KM defines how to provide the organizational, methodological, and technological prerequisites that enable sof ...

Keywords: CSCL, courseware module production, knowledge packaging

- 5 [Technical Papers: CREAM: creating relational metadata with a component-based, ontology-driven annotation framework](#) 

 Siegfried Handschuh, Steffen Staab, Alexander Maedche
October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available:  pdf(270.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Richly interlinked, machine-understandable data constitutes the basis for the Semantic Web. Annotating web documents is one of the major techniques for creating metadata on the Web. However, annotation tools so far are restricted in their capabilities of providing richly interlinked and truly machine-understandable data. They basically allow the user to annotate with plain text according to a template structure, such as Dublin Core. We here present CREAM (Creating RElational, Annotation-based M ...

Keywords: DAML+OIL, RDF, annotations, markup, metadata, ontology, semantic web

- 6 [Investigating link service infrastructures](#) 

 David C. De Roure, Nigel G. Walker, Leslie A. Carr
May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: Additional Information:

[pdf\(133.87 KB\)](#)[full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: LDAP, Whois++, directory services, distributed link service, link service, open hypermedia, query routing

7 [ITiCSE 2002 working group report: Materials development in support of mathematical thinking](#) 

- ◆ Peter B. Henderson, Lew Hitchner, Sister Jane Fritz, Bill Marion, Christelle Scharff, John Hamer, Charles Riedesel
- June 2002 **ACM SIGCSE Bulletin , Working group reports from ITiCSE on Innovation and technology in computer science education ITiCSE-WGR '02**, Volume 35 Issue 2

Publisher: ACM Press

Full text available: [pdf\(225.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Our ITiCSE 2002 working group 'Materials Development in Support of Mathematical Thinking' identified the development of an on-line repository as the best mechanism for organizing and disseminating materials promoting mathematical thinking in computer science education.

Keywords: mathematical thinking, repository

8 [Reusable hypertext structures for distance and JIT learning](#) 

- ◆ Anne Morgan Spalter, Rosemary Michelle Simpson
- May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Publisher: ACM Press

Full text available: [pdf\(300.08 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: components, design patterns, education, hypertext structure components, interactive graphics, spatial hypertext, structural computing, temporal hypertext

9 [Technical Papers: From thesaurus to ontology](#) 

- ◆ B. J. Wielinga, A. Th. Schreiber, J. Wielemaker, J. A. C. Sandberg
- October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**

Publisher: ACM Press

Full text available: [pdf\(391.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Thesauri such as the Art and Architecture Thesaurus (AAT) provide structured vocabularies for describing art objects. However, if we want to create a knowledge-rich description of an (image of an) art object, such as required by the "semantic web", thesauri turn out to provide only part of the knowledge needed. In this paper we look at problems related to capturing background knowledge for art resources. We describe a case study in which we attempt to construct an ontology for a subset of art-ob ...

Keywords: image indexing, ontology construction, thesaurus, web standards

10 [Location-based services and mobile computing: data models: Metadata modeling in a](#) 

 **global computing environment**

Dieter Pfoser, Evangelia Pitoura, Nectaria Tryfona

November 2002 **Proceedings of the 10th ACM international symposium on Advances in geographic information systems**

Publisher: ACM Press

Full text available:  pdf(264.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Emerging computational paradigms such as global and ubiquitous computing require some rethinking and innovative research ideas in many computer science areas. In this work, we aim at studying a mobile computing scenario from the database perspective. Given a global computing environment in which data is kept in a number of small-scale, data-charged, mobile devices that use, e.g., wireless networks, for communication, we want to assess the overall data scenario. We use an example to abstract the ...

Keywords: global computing, metadata, mobile computing, mobile devices, mobile ontologies, spatiotemporal databases



11 Poster session and reception: Reusable learning objects: a survey of LOM-based repositories



Filip Neven, Erik Duval

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Publisher: ACM Press

Full text available:  pdf(102.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we survey the field of learning object repositories. Learning objects are typically relatively small content components that are meant to be reusable in different contexts. Associated to these learning objects are metadata, so that they can be managed, searched, etc. As the international standardization in this area is making important progress, the number of these repositories is growing rapidly, and the whole field of learning objects is rapidly maturing as a research area in it ...

Keywords: Learning Object Metadata (LOM), digital libraries, learning object repositories, metadata, reusable learning objects



12 The Hybrid Object-Relational Architecture (HORA): an integration of object-oriented and relational technology



Jeff Sutherland, Matthew Pope, Ken Rugg

March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**

Publisher: ACM Press

Full text available:  pdf(621.99 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)



13 Combining RDF and XML schemas to enhance interoperability between metadata application profiles



Jane Hunter, Carl Lagoze

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(525.04 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: RDF, XML, XSLT, interoperability, metadata, schema

14 Structured document storage and refined declarative and navigational access mechanisms in HyperStorM



Klemens Böhm, Karl Aberer, Erich J. Neuhold, Xiaoya Yang

November 1997 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 6 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(184.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The combination of SGML and database technology allows to refine both declarative and navigational access mechanisms for structured document collection: with regard to declarative access, the user can formulate complex information needs without knowing a query language, the respective document type definition (DTD) or the underlying modelling. Navigational access is eased by hyperlink-rendition mechanisms going beyond plain link-integrity checking. With our approach, the database-internal repres ...

Keywords: Document query languages, Navigation, OODBMSs, SGML

15 Novel search environments: Integration of simultaneous searching and reference linking across bibliographic resources on the web



William H. Mischo, Thomas G. Habing, Timothy W. Cole

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: [pdf\(279.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Libraries and information providers are actively developing customized portals and gateway software designed to integrate secondary information resources such as A & I services, online catalogs, and publishers full-text repositories. This paper reports on a project carried out at the Grainger Engineering Library at the University of Illinois at Urbana-Champaign to provide web-based asynchronous simultaneous searching of multiple secondary information resources and integrated reference linking be ...

Keywords: asynchronous simultaneous search, digital library, openURL, reference linking, searchbots

16 Archiving, digital collections, and analysis: Building memory



Dimitris Papalexopoulos, Eleni Kalafati, Sakis Papadopoulos

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Publisher: ACM Press

Full text available: [pdf\(6.76 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

17 The Alexandria digital earth prototype



Terence R. Smith, Greg Janee, James Frew, Anita Coleman

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: [pdf\(141.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This note summarizes the system development activities of the Alexandria Digital Earth

Prototype (ADEPT) Project.5 ADEPT and the Alexandria Digital Library (ADL) are, respectively, the research and operational components of the Alexandria Digital Library Project. The goal of ADEPT is to build a distributed digital library (DL) of personalized collections of geospatially referenced information. This DL is characterized by: (1) services for building, searching, and using personalized coll ...

18 Designing multimedia: Design of multimedia semantic presentation templates:



options, problems and criteria of use

Nicola Aloia, Tullio Bendini, Fabio Paternò, Carmen Santoro

May 1998 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: [pdf\(2.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents and discusses the use of Semantic Multimedia Presentation Templates which capture presentation structures that are suitable for communicating semantic data relationships occurring across many applications. The identification of the space of the possible presentation templates along with criteria to evaluate them that depend on the current task, data cardinality and other aspects, is very useful for supporting the automatic generation of effective query result multimedia prese ...

Keywords: model-based user interface design, multimedia templates, query result presentation, user tasks

19 Metadata and data structures for the historical newspaper digital library



Robert B. Allen, John Schalow

November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(732.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We examine metadata and data-structure issues for the Historical Newspaper Digital Library. This project proposes to digitize and then do OCR and linguistics processing on several years worth of historical newspapers. Newspapers are very complex information objects so developing a rich description of their content is challenging. In addition to frameworks for the logical structure and physical layout, we propose metadata relevant to the image processing and to the historians who will use th ...

Keywords: OCR, digital libraries, history, metadata, newspapers

20 Reconsidering custom memory allocation



Emery D. Berger, Benjamin G. Zorn, Kathryn S. McKinley

November 2002 **ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '02**, Volume 37 Issue 11

Publisher: ACM Press

Full text available: [pdf\(344.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Programmers hoping to achieve performance improvements often use custom memory allocators. This in-depth study examines eight applications that use custom allocators. Surprisingly, for six of these applications, a state-of-the-art general-purpose allocator (the Lea allocator) performs as well as or better than the custom allocators. The two exceptions use regions, which deliver higher performance (improvements of up to 44%). Regions also reduce programmer burden and eliminate a source of memory ...

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